

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10924	esterase\$1	US-PGPUB; USPAT	AND	OFF	2004/01/30 16:37
L2	177	aquifex or pyrophilus	US-PGPUB; USPAT	AND	OFF	2004/01/30 16:38
L3	5	1 same 2	US-PGPUB; USPAT	AND	OFF	2004/01/30 16:46

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:46:41 ON 30 JAN 2004

=> fil .bec  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
	0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCPLUS, NTIS,  
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 16:47:00 ON 30 JAN 2004  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s esterase#  
FILE 'MEDLINE'  
L1 22180 ESTERASE#

FILE 'SCISEARCH'  
L2 13499 ESTERASE#

FILE 'LIFESCI'  
L3 5698 ESTERASE#

FILE 'BIOTECHDS'  
L4 2191 ESTERASE#

FILE 'BIOSIS'  
L5 44297 ESTERASE#

FILE 'EMBASE'  
L6 14372 ESTERASE#

FILE 'HCPLUS'  
L7 33901 ESTERASE#

FILE 'NTIS'  
L8 300 ESTERASE#

FILE 'ESBIOBASE'  
L9 3637 ESTERASE#

FILE 'BIOTECHNO'  
L10 4672 ESTERASE#

FILE 'WPIDS'  
L11 2440 ESTERASE#

TOTAL FOR ALL FILES  
L12 147187 ESTERASE#

=> s aquifex or pyrophilus  
FILE 'MEDLINE'  
163 AQUIFEX  
31 PYROPHILUS  
L13 163 AQUIFEX OR PYROPHILUS

FILE 'SCISEARCH'  
216 AQUIFEX  
79 PYROPHILUS  
L14 216 AQUIFEX OR PYROPHILUS

FILE 'LIFESCI'

116 AQUIFEX  
27 PYROPHILUS  
L15 116 AQUIFEX OR PYROPHILUS

FILE 'BIOTECHDS'  
25 AQUIFEX  
7 PYROPHILUS  
L16 27 AQUIFEX OR PYROPHILUS

FILE 'BIOSIS'  
226 AQUIFEX  
50 PYROPHILUS  
L17 230 AQUIFEX OR PYROPHILUS

FILE 'EMBASE'  
150 AQUIFEX  
29 PYROPHILUS  
L18 150 AQUIFEX OR PYROPHILUS

FILE 'HCAPLUS'  
299 AQUIFEX  
54 PYROPHILUS  
L19 300 AQUIFEX OR PYROPHILUS

FILE 'NTIS'  
1 AQUIFEX  
1 PYROPHILUS  
L20 1 AQUIFEX OR PYROPHILUS

FILE 'ESBIOBASE'  
145 AQUIFEX  
26 PYROPHILUS  
L21 145 AQUIFEX OR PYROPHILUS

FILE 'BIOTECHNO'  
141 AQUIFEX  
29 PYROPHILUS  
L22 141 AQUIFEX OR PYROPHILUS

FILE 'WPIDS'  
27 AQUIFEX  
8 PYROPHILUS  
L23 28 AQUIFEX OR PYROPHILUS

TOTAL FOR ALL FILES  
L24 1517 AQUIFEX OR PYROPHILUS

=> s l12 and l24

FILE 'MEDLINE'  
L25 1 L1 AND L13

FILE 'SCISEARCH'  
L26 0 L2 AND L14

FILE 'LIFESCI'  
L27 0 L3 AND L15

FILE 'BIOTECHDS'  
L28 '2 L4 AND L16

FILE 'BIOSIS'  
L29 0 L5 AND L17

FILE 'EMBASE'

L30 0 L6 AND L18

FILE 'HCAPLUS'

L31 4 L7 AND L19

FILE 'NTIS'

L32 0 L8 AND L20

FILE 'ESBIOBASE'

L33 0 L9 AND L21

FILE 'BIOTECHNO'

L34 0 L10 AND L22

FILE 'WPIDS'

L35 1 L11 AND L23

TOTAL FOR ALL FILES

L36 8 L12 AND L24

=> dup rem 136

PROCESSING COMPLETED FOR L36

L37 5 DUP REM L36 (3 DUPLICATES REMOVED)

=> d tot

L37 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Nucleic acid and polypeptide sequences for alanine 2,3-aminomutase and their use for production of  $\beta$ -alanine, pantothenate, 3-hydroxypropionic acid, and 1,3-propanediol

SO PCT Int. Appl., 119 pp.

CODEN: PIXXD2

IN Liao, Hans H.; Gokarn, Ravi R.; Gort, Steven J.; Jessen, Holly J.; Selifonova, Olga

AN 2003:591126 HCAPLUS

DN 139:144955

PATENT NO. KIND DATE APPLICATION NO. DATE

PI	WO 2003062173	A2	20030731	WO 2003-US1635	20030117	
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

L37 ANSWER 2 OF 5 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

TI New isolated nucleic acid and its variants comprising specified consecutive amino acid sequences and corresponding cDNA sequences, encode polypeptides having esterase activity; recombinant enzyme production via plasmid expression in host cell, for ester hydrolysis

AU ROBERTSON D E; MURPHY D; REID J; MAFFIA A M; LINK S; SWANSON R; WARREN P V; KOSMATKA A

AN 2003-07813 BIOTECHDS

PI US 2002146799 10 Oct 2002

L37 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Nucleic acids encoding human cyclic nucleotide-associated proteins

SO PCT Int. Appl., 78 pp.  
 CODEN: PIXXD2  
 IN Hillman, Jennifer L.; Yue, Henry; Guegler, Karl J.; Corley, Neil C.;  
 Patterson, Chandra; Tang, Y. Tom  
 AN 2000:175945 HCAPLUS  
 DN 132:218013  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 PI WO 2000014248 A1 20000316 WO 1999-US20287 19990903  
     W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
     DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,  
     KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,  
     MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
     TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
     TJ, TM  
     RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
     ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
     CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
     AU 9960263 A1 20000327 AU 1999-60263 19990903  
     EP 1144648 A1 20011017 EP 1999-968683 19990903  
     R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
     IE, SI, LT, LV, FI, RO  
     JP 2003524379 T2 20030819 JP 2000-568989 19990903

L37 ANSWER 4 OF 5 MEDLINE on STN  
 TI Mutational analysis of the RecJ exonuclease of Escherichia coli:  
     identification of phosphoesterase motifs.  
 SO Journal of bacteriology, (1999 Oct) 181 (19) 6098-102.  
     Journal code: 2985120R. ISSN: 0021-9193.  
 AU Sutera V A Jr; Han E S; Rajman L A; Lovett S T  
 AN 1999429858 MEDLINE  
  
 L37 ANSWER 5 OF 5 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 TI New nucleic acid encoding heat stable **esterases** from  
     thermophilic bacteria;  
     recombinant thermostable **esterases** for use in  
     pharmaceutical, agricultural or food industries, etc.  
 AU Robertson D E; Murphy D; Reid J; Maffia A M; Link S; Swanson R V; Warren  
     P V; Kosmotka A; Callen W  
 AN 1997-11973 BIOTECHDS  
 PI WO 9730160 21 Aug 1997

```

=> s 124(8a)gene/q
FILE 'MEDLINE'
L38      33 L13(8A)GENE/Q

FILE 'SCISEARCH'
L39      38 L14(8A)GENE/Q

FILE 'LIFESCI'
L40      27 L15(8A)GENE/Q

FILE 'BIOTECHDS'
L41      9 L16(8A)GENE/Q

FILE 'BIOSIS'
L42      48 L17(8A)GENE/Q

FILE 'EMBASE'
L43      29 L18(8A)GENE/Q

FILE 'HCAPLUS'
L44      110 L19(8A)GENE/Q
  
```

FILE 'NTIS'  
L45 0 L20 (8A) GENE/Q

FILE 'ESBIOBASE'  
L46 28 L21 (8A) GENE/Q

FILE 'BIOTECHNO'  
L47 31 L22 (8A) GENE/Q

FILE 'WPIDS'  
L48 8 L23 (8A) GENE/Q

TOTAL FOR ALL FILES  
L49 361 L24 (8A) GENE/Q

=> S 149 not 2002-2004/PY

FILE 'MEDLINE'  
1106444 2002-2004/PY  
L50 25 L38 NOT 2002-2004/PY

FILE 'SCISEARCH'  
2025850 2002-2004/PY  
L51 26 L39 NOT 2002-2004/PY

FILE 'LIFESCI'  
176700 2002-2004/PY  
L52 21 L40 NOT 2002-2004/PY

FILE 'BIOTECHDS'  
44267 2002-2004/PY  
L53 6 L41 NOT 2002-2004/PY

FILE 'BIOSIS'  
1030583 2002-2004/PY  
L54 34 L42 NOT 2002-2004/PY

FILE 'EMBASE'  
916615 2002-2004/PY  
L55 20 L43 NOT 2002-2004/PY

FILE 'HCAPLUS'  
2126778 2002-2004/PY  
L56 60 L44 NOT 2002-2004/PY

FILE 'NTIS'  
22626 2002-2004/PY  
L57 0 L45 NOT 2002-2004/PY

FILE 'ESBIOBASE'  
575994 2002-2004/PY  
L58 20 L46 NOT 2002-2004/PY

FILE 'BIOTECHNO'  
244553 2002-2004/PY  
L59 22 L47 NOT 2002-2004/PY

FILE 'WPIDS'  
2133128 2002-2004/PY  
L60 1 L48 NOT 2002-2004/PY

TOTAL FOR ALL FILES  
L61 235 L49 NOT 2002-2004/PY

=> log Y  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE  
ENTRY  
21.31

TOTAL  
SESSION  
21.52

STN INTERNATIONAL LOGOFF AT 16:51:26 ON 30 JAN 2004